Integrate land change data into national vegetation and wildfire mapping programs

VIRTUAL STUDENT FOREIGN SERVICE

V S F S

Project Title	Integrate land change data into national vegetation and wildfire mapping programs
Project Summary	Analyze a variety of data sources from around the country and develop GIS datasets that can be integrated into national level vegetation, wildfire, and land cover mapping programs.
Country	United States
Agency	Geological Survey
DoS Office	N/A
Post	N/A
Section	N/A
Number of Interns	2

Project Description

The LANDFIRE program at USGS creates consistent and comprehensive maps of vegetation conditions and wildfire fuels for the entire country that are updated on a regular basis. Part of these updates includes integration of various ancillary datasets from different parts of the country that depict landscape changes and the current condition of different landscape components. We are seeking assistance in searching for, acquiring, analyzing, and processing these datasets to make them available for integration with the next version of LANDFIRE data products. These datasets may also be useful for other land cover and land change mapping programs within USGS including the Monitoring Trends in Burn Severity project, the National Land Cover Database program, and the Landscape Change Mapping, Assessment, and Projection program.

This work will require knowledge of geospatial data and GIS processes. All work can be accomplished using existing open source remote sensing and GIS tools. Valuable, real-world experience in data acquisition and data processing will be gained while making a tangible contribution to a large, nationwide, comprehensive mapping program. Selected interns will work with a diverse, multi-agency/multi-organizational team of scientists, analysts, and program sponsors located across the country. GIS and mapping experts will work closely with and supervise selected interns to provide guidance and direction, giving them an opportunity to develop and enhance their geospatial data and teamwork skills while learning from a very experienced and talented project team.

Desired Skills Interests

Additional Information

Background information on the LANDFIRE program can be found at www.landfire.gov

Language Requirements

None